

eCactus-SH

SINGLE PHASE HOME BATTERY

VOL+A ECO SYSTEMS



Product Introduction

eCactus, a hybrid all-in-one BESS, compatible with high voltage LFP battery system, can achieve the best function to maximize clean solar power usage for your home while maintaining a sleek and professional look and making BESS installation easier than ever.



CONVENIENT

Battery pre-installed

QUIET

Less than 25 dB,
no noise pollution

FLEXIBLE

IP65
Inverter up to 6kW
Battery capacity up to 10kWh

ADAPTATIVE

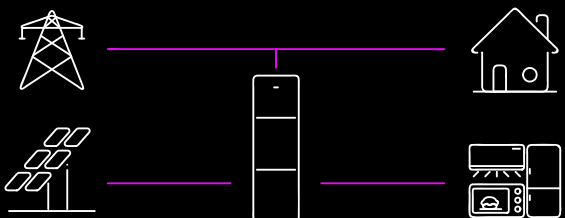
Self-power, backup, and load shifting modes

INDEPENDENT

No additional modules and inverters are required

SMART

Support VPP and IOT



- eCactus-SH will store photovoltaic or grid energy. If there is not enough solar energy to support consumption, the stored battery power will be discharged by Agave-SH to meet the power demand.
- Autonomous strategy, automatically optimising energy use based on the user's needs and preferences.

Model	WH-SPHA3.6H-5.12kWh WH-SPHA3.6H-10.24kWh	WH-SPHA4.6H-5.12kWh* WH-SPHA4.6H-10.24kWh*	WH-SPHA5.0H-5.12kWh WH-SPHA5.0H-10.24kWh	WH-SPHA6.0H-5.12kWh WH-SPHA6.0H-10.24kWh
PV Input				
Absolute max Voltage (d.c.V)			600	
MPPT Voltage Range (d.c.V)			100-550	
Max. DC Input Power (W)	4800	6200	6650	8000
Start-up Voltage (d.c.V)			90	
Rated Operating Voltage (d.c.V)			360	
Max. Input Current (d.c.A)			12.5/12.5	
Max. inverter backfeed current to array (d.c.A)			0	
Isc PV (d.c.A)			18/18	
NO. of MPP Trackers			2	
NO. of Strings per MPP Tracker			1	
Battery Model				
	WH-BXB5.12		WH-BXB10.24	
Battery Capacity	LFP 5.12kWh		LFP 10.24kWh	
Nominal Battery Voltage (d.c.V)	204.8		409.6	
Battery Voltage Range (d.c.V)	160-227.2		320-454.4	
Max. Charge/Discharge Current (d.c.A)			25/25	
Depth of Discharge (%)			90	
AC Input/Output				
Rated output Power (W)	3600	4600	5000	6000
Rated Apparent Power to Grid (VA)	3600	4600	5000	6000
Max. Apparent Power to Grid (VA)	3600	4600	5000	6000
Max. Apparent Power from Grid (VA)	7200	9200	10000	12000
Rated Voltage (a.c.V)	220/230/240			
Rated Frequency (Hz)	50/60			
Rated AC Current to Grid (a.c.A)	15.6	20	21.7	26.1
Max. output current (a.c.A)	17.2	22	23.9	28.7
Max. Current from Grid (a.c.A)	31.2	40	43.4	52.2
Inrush current (a.c.A)	16 a.c.A (peak), 11.3 us (duration)			
Max. output fault current (a.c.A)	57 (peak), 40 (rms)			
AC output Maximum output overcurrent protection (a.c.A)	40			
AC input power factor	-0.8..+0.8			
AC output power factor	1 (-0.8..+0.8 adjustable)			
THDi	<3%			
EPS Output				
Max. Output Power (W)	3600	4600	5000	6000
Rated Apparent Power (VA)	4320	5520	6000	7200
Max. Apparent Power (VA)	4320	5520	6000	7200
Rated Voltage (a.c.V)	230 (+2%)			
Normal Frequency (Hz)	50/60 (+0.2%)			
Max. Output Current (a.c.A)	18.8	24	26.1	31.3
Max. output fault current (a.c.A)	57 (peak), 40 (rms)			
EPS output Maximum output overcurrent protection (a.c.A)	40			
Switch time (ms)	10			
THDv @ Linear Load (%)	<2			
Power Factor	-0.8..+0.8			
Efficiency				
PV Max. Efficiency (%)	97.6			
PV Europe Efficiency (%)	97			
PV Max. MPPT Efficiency (%)	99.9			
Battery Charge by PV Max. Efficiency (%)	98			
Battery Discharge Efficiency (%)	96.7			
Protection				
Over/Under voltage protection	Yes			
DC isolation protection	Yes			
DC injection monitoring	Yes			
Residual current detection	Yes			
Anti-islanding protection	Yes			
Over load protection	Yes			
Battery Input reverse polarity protection	Yes			
PV reverse polarity protection	Yes			
Surge protection	Yes			
Over heat protection	Yes			
General Data				
	WH-BXB5.12		WH-BXB10.24	
Dimension (W/D/H)(mm)	550 × 233 × 1125mm		550 × 233 × 1750mm	
Dimension of Packing (W/D/H)(mm)	655 × 302 × 1390mm		655 × 302 × 2085mm	
Net weight (kg)	68		115	
Gross weight (kg)	78		130	
Operation Temp (°C)	-10..+55			
Relative Humidity (%)	0..95			
Altitude (m)	≤3000			
Ingress Protection	IP65			
Cooling	Natural			
Inverter Topology	Non-isolated			
Over voltage category	III (AC), II (DC)			
Protective class	Class I			
Active anti-islanding method	frequency shift			
Human Interface	LED/APP			
BMS Communication Interface	RS485/CAN			
Meter Communication Interface	RS485			
Noise Emission (dB)	<25			
Standby Power Consumption (W)	<5			
Safety and Approvals				
Safety	UN 38.3, IEC 62619, IEC 62100, IEC 62109			
Country Certifications	AS/NZS 4777.2, EN 50549-1, C 10/11, VDE 4105, VDE 0124, MEA/PEA, XP C 15-712-3, VDE 0126, PDC, EN50549-1/RTG/PTPIREE, GS98/G99 , RD 1699, CEI 0-21, EIFS, PPD5, NRS 097			

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Smax=Rated for AS/NZS 4777.2
only for Germany